AUTHOR INDEX AND SUBJECT INDEX

TO

VOLUME XIX

AUTHOR INDEX VOLUME XIX

Abell, L. L., 48 Aub, J. C., 337

Baker, L. A., 357, 773
Barr, D. P., 4
Beeson, P. B., 1
Best, M. M., 61
Bockus, H. L., 583
Bogoch, A., 583
Botelho, S. Y., 693
Boyce, W. H., 87
Branch, W. E., 872
Brandenburg, R. O., 189
Briscoe, W. A., 958
Buttross, D., Jr., 159

Callahan, J. A., 189 Cantrell, F. P., 783 Capeci, N., 509 Carson, R. P., 410 Casselman, W. G. B., 583 Chapman, A. Z., 773 Chernoff, H. M., 488 Churchill-Davidson, H. C., 691 Clagett, O. T., 703 Cohen, L., 71 Cohn, C., 222 Comer, E. O., 814 Comroe, J. H., Jr., 958 Conn, J. W., 460 Conroy, C. E., 673 Corbus, H., 71 Cournand, A., 533 Creger, W. P., 401

Danforth, W. H., 303 de Klerk, J., 327 Domzalski, C. A., 370 Duncan, C. H., 61

Eaton, L. M., 703 Eder, H. A., 4 Engel, G. L., 231 Evans, A. S., 783

Feichtmeir, T. V., 966 Ferruggia, T. M., 673 Fienberg, R., 829 Fishman, A. P., 533 Foye, L. V., Jr., 966 Friedman, I. A., 773

Galdston, M., 516 Gammon, G. D., 655 Garvey, F. K., 87 Gassman, H. S., 357 Glaviano, V. V., 509 Goldman, A., 832 Gormsen, H., 209 Grace, W. J., 78 Grob, D., 679, 684

Harris, S. B., 798 Harvey, A. M., 679, 684 Harvey, J. C., 327 Harvey, J. E., 350 Hatch, F. T., 48 Hilton, J. G., 509 Hoeprich, P. D., 488 Hudson, P. B., 895 Hunt, B. P., 814 Hyman, G. A., 350

Ingle, D. J., 724 Iseri, L. T., 976 Iversen, P., 209

Johns, R. J., 679, 684 Jones, R. J., 71 Juniper, K., Jr., 648

Kane, C. A., 729 Kappell, B. H., 673 Katz, L. N., 759 Keating, J. H., 509 Kelley, J. J., Jr., 862 Kempner, W., 33 Kendall, F. E., 48 Kennedy, B. J., 337 Kilby, R. A., 925 Kiss, G., 509 Klein, R., 798 Knoeppel, C. R., 673 Koelle, G. B., 661 Kramer, N. E., 872 Kuramoto, K., 832

Lahey, M. E., 410 LeCompte, P. M., 743 Lee, R. E., 203 Lerner, A. B., 902 Lorber, M., 887 Lukens, F. D. W., 790

Mader, I. J., 976 Mann, G. V., 25 Margolies, M. P., 583 Massumi, R. A., 832 Mayock, R. L., 401 McAdams, A. J., Jr., 314 McCann, W. S., 495 McClenahan, J., 549 McKusick, V. A., 849 Meadows, R., Jr., 357 Meneely, G. R., 323 Miller, R. M., 498 Mittelman, A., 895 Morgan, V. C., 370 Morton, J. W., 958 Muñoz, J. A., 25 Myerson, R. M., 155

Nastuk, W. L., 663 Nathanson, I. T., 337 Nelson, R. S., 783 Newborg, B., 33 Norfleet, C. M., Jr., 87

Ober, W. B., 743 Oetting, H. K., 872 Osserman, K. E., 737

Page, E., 169 Palmer, P. P., 401 Pick, A., 759 Pisciotta, A. V., 824 Porter, W. B., 177 Prinzmetal, M., 832 Puite, R. H., 383

Raaschou, F., 209 Rakita, L., 832 Randall, L. O., 673 Ratto, O., 958 Read, J. L., 177 Reagan, W. P., 849 Recant, L., 610 Reeder, P. S., 773 Renold, A. E., 163 Richardson, A. T., 691 Ricketts, H. T., 933 Rosecan, M., 303 Rubenstone, A. I., 652 Rubin, E. H., 569 Russ, E. M., 4

Salatich, J., 159 Samet, P., 533 Sands, J. H., 401 Santos, G. W., 849 Schlezinger, N. S., 718 Schultz, E. J., 824 Schwab, R. S., 734 Schwartz, J., 410 Schwartz, L. I., 887

Author Index

Scrimshaw, N. S., 25 Seltzer, H. S., 460 Silverman, F. N., 410 Smith, H. P., 808 Smith, H. P., Jr., 808 Spain, D. M., 366 Sprague, R. G., 925 Sprinz, H., 783 Stadie, W. C., 257 Steinberg, I., 549 Stetten, D. W., Jr., 96 Stunkard, A. J., 78 Swan, H. J. C., 189 Tellem, M., 652
Tench, W. R., 869
Tenney, S. M., 498
Tesluk, H., 383
Tether, J. E., 740
Thorn, G. W., 163
Tibbetts, D. M., 337
Topper, Y. J., 96
Trobaugh, F. E., Jr., 303
Tsuboi, K. K., 895

Van Loon, E. J., 61 Van Maanen, E. F., 669 Viets, H. R., 658 Wasserman, L. R., 887 Wathen, J. D., 61 Webb, G. N., 849 Wégria, R., 509 Wilson, A., 697

Venning, E. H., 721

Wohl, G. T., 155 Wolff, H. G., 78 Wolfson, W. Q., 222

Young, I. I., 222

SUBJECT INDEX VOLUME XIX

(ab.) = Abstracts; (CPC) = Clinico-pathologic Conference; (E.) = Editorial

Abstracts

of Association for Study of Liver Diseases, fifth annual meeting, October 28, 1954, 640

of Southern Society for Clinical Research, annual meeting, January 29, 1955, 135

of Western Society for Clinical Research, eighth annual meeting, January 28 and 29, 1955, 285

Acid-base

balance, effects of carbonic anhydrase inhibitor on, 5 6 equilibrium, effect of salicylate on, 509

Acidosis

renal tubular (ab.), 288

respiratory, and diamox therapy, 516

and internal distribution of potassium (ab.), 288

ACTH and renal clearance of thiosulfate (ab.), 145 Adrenal cortex

activity, diurnal variation of (ab.), 299

and renal hemodynamics (ab.), 146

carcinoma producing mineralocorticoid effect, 966

Adrenal hormone therapy in viral hepatitis, 783

Adrenocorticotropin in rheumatic fever (ab.), 291

Agammaglobulinemia in the adult, 222, 303

Aldosterone in urine (ab.), 290

Alkalosis due to hypersecretion of mineralocorticoid, 976

9-Alpha-fluorohydrocortisone, clinical studies with (ab.), 290

Amino acids and albumin turnover (ab.), 286

Anemia

aplastic, following exposure to lindane (CPC), 274

hereditary hemolytic, erythrocyte carbohydrate metabolism in (ab.), 291

in patients with carcinoma, 350

of heat stroke (ab.), 141

of uremia (ab.), 153

pernicious, and gastric atrophy (ab.), 301

blood transfusions in (ab.), 146

sickle cell, and liver disease, 583

Aneurysm

aortic, rupture into pulmonary artery, 159

of left coronary artery, 652

Angiocardiography and pulmonary arteriovenous fistula,

Angiotonin and pulmonary artery pressures (ab.), 145

Anoxemia secondary to polycythemia, 958

Antibiotics

and proteus (ab.), 297

effect on intestinal absorption of vitamin B₁₂ (ab.), 297

Antibody-coated red blood cells and ulcerative colitis, 887

Anticholinesterase drugs, pharmacology of, 673

Antidiuretic hormone and renal tubular reabsorption (ab.), 143

Antihemophilia, bovine, and human plasma (ab.), 291 Anuria, kidney biopsy in, 209 Aortic aneurysm, rupture of into pulmonary artery, 159 Aplastic anemia after exposure to lindane (CPC), 274 Arrhythmia

ventricular, as a form of digitalis toxicity, 169 dactil in (ab.), 135

Artery

blood flow through (ab.), 153

coronary, aneurysm of, 652

pulmonary and systolic click (ab.), 294 rupture of, 159

Arteriovenous fistula, pulmonary, 549

Association for Study of Liver Diseases, fifth annual meeting, October 28, 1954, 640

Atherosclerosis

and incorporation of beta-sitosterol into diet, 61

and precipitin test (ab.), 300

coronary, serum lipids in, 71

Atrial pressure, right, and cardiac output (ab.), 141

Atrophy, gastric and carcinoma (ab.), 301

Auricular flutter, excitation in (ab.), 294

Azaserine and leukemia (ab.), 293

Azides, vasoactivity of, in hypertension (ab.), 137

Bernheim's syndrome (ab.), 293

Beta-sitosterol in hypothyroidism (ab.), 135

Bile

duct obstruction and hepatitis (ab.), 641

roentgenologic visualization of (ab.), 647

pigments, metabolism of (ab.), 640

regurgitation and cholangiolar system (ab.), 643

Blood

arterial and venous, platelets in (ab.), 298

coagulation, hyperactivity of (ab.), 138

cooling for cardiac surgery (ab.), 140

flow through arteries (ab.), 153

transfusions in pernicious anemia (ab.), 146

volume determinations (ab.), 287

in Laennec's cirrhosis (ab.), 139

Breast, cancer of, and hormone therapy, 337

Breath as a nutriment (E.), 323

Bronchiolitis obliterans, 314

Bronchodilators, oral evaluation of (ab.), 136

Bundle branch block, systolic movements of precordium in (ab.), 142

Calcinosis, treatment of, with EDTA, 798 Calculi, initiation and growth of, 87

Cancer

breast, and steroid hormone therapy, 337

prostatic, and hepatic damage, 895

Capillaries, permeability of, to large molecules (ab.), 154

Carbohydrate

administration precipitating digitalis toxicity, 169 metabolism of, 96

alterations in (ab.), 147

Carbon monoxide and radioactive chromium in blood volume determinations (ab.), 287

Carbonic anhydrase inhibitor and respiratory acidosis, 516

Carcinoid tumors of gastrointestinal tract and cardiovascular abnormalities, 366

Carcinoma

adrenal cortical, producing mineralocorticoid effect, 966

and anemia, 350

cytology of, and pernicious anemia (ab.), 301

Cardiac

failure and Bernheim's syndrome (ab.), 293

hemodynamics and postural syncope (ab.), 140

muscle, nucleotide levels in (ab.), 137

output, urinary excretion and mercuhydrin (ab.), 151 surgery, blood cooling for (ab.), 140

Cardiovascular

abnormalities and carcinoid tumors of gastrointestinal tract, 366

disease, hypertensive, treatment by means of rice diet,

Carotid sinus pressure in diagnosis of triple rhythms, 177 Cerebrum

blood flow of, and heparin (ab.), 153

circulation of, in pulmonary insufficiency (ab.), 152 cortical stimulation of, and epinephrine activity (ab.),

hemodynamics of, and postural syncope (ab.), 140

Chelate compounds and urinary calculus formation, 87

Chelation in treatment of scleroderma, sclerodactylia and calcinosis, 798

Chlorpromazine and jaundice (ab.), 644

Cholangiolitic hepatitis (ab.), 641, 642

Cholesterol and lipoprotein concentrations of Central and North Americans, 25

Cholesterol, restriction of, and hypertension, 48

Cholinergic and myasthenic crises, 740

Chromium, radioactive, in blood volume determination (ab.), 299

Circulation, ventilation and metabolism, interrelationships of (E.), 495

Circulatory and respiratory actions of salicylate, 498 Cirrhosis

and cholangiolitic impairment (ab.), 642

and hepatic tests (ab.), 640

hepatic, nail beds in (ab.), 647

Laennec's, blood volume in (ab.), 139

nodular histogenesis of (ab.), 643

Clinico-pathologic conferences (Washington Univ.)
exposure to insecticides, bone marrow failure, gastro-

posure to insecticides, bone marrow failure, gastrointestinal bleeding, and uncontrollable infections, 274

hypertension, abdominal pain and nausea, syncope and shock, 946

Clinico-pathologic conferences (Washington Univ.) jaundice and ascites with recovery for two years; recurrence of jaundice, with abdominal pain, hematemesis and azotemia, 479

rheumatic heart disease, auricular fibrillation, fever, hematuria without anemia, splenomegaly and sudden death, 629

right-sided heart failure occurring during successive pregnancies, polycythemia, and sudden peripheral vascular collapse, 126

Cold stimulus, racial and individual differences in (ab.),

Colitis

ulcerative, and antibody-coated red blood cells, 887 psychologic processes involved in, 231

Collagen disease and ovarian cyst (ab.), 137

Combined staff clinic (Columbia Univ.), obesity, 111

Commissurotomy, mitral, evaluation of (ab.), 294

Conference on therapy (Cornell Univ.) choice of therapy in intestinal parasitic disease, 620

Copper metabolism (ab.), 289

Coronary

artery, aneurysm of, 652

atherosclerois, serum lipids in, 71

blood flow in mitral stenosis (ab.), 150

Corticoid, sodium-retaining, in urine (ab.), 290

Cortisone and gamma globulin in viral hepatitis, 783

Creatine metabolism, female genital function of (ab.),

Cu⁶⁴ in Wilson's disease (ab.), 144

Curarized normal humans and myasthenia gravis patients, 693

Cushing's syndrome and hypertension, 203

Cyanosis, pulmonary stenosis and interatrial communication with, 189

Cyst, ovarian, pleuropneumonia-like organisms in (ab.), 137

Dactil in ventricular arrhythmia (ab.), 135

Decay rate and excretion of radiocesium (ab.), 150

Dermatomyositis, 370

Diabetes

associated with pituitary insufficiency, 327

degenerative vascular disease in, 933

experimental, and diabetes mellitus, 790

mellitus, insulins in treatment of, 925

vascular disease in, and hypophysectomy (ab.), 295

Diamox therapy and respiratory acidosis, 516

Die

fat, restriction of, and hypertension, 48

rice, and cardiovascular disease, 33

Digitalis

precipitation by carbohydrate administration in, 169 toxicity and mercurial-fast edema in congestive heart failure, 869

DNA fraction in determination of life span of leukocytes (ab.), 292

Drug action and neuromuscular transmission in myasthenia gravis, 684

Edema mercurial-fast in congestive heart failure, 869 radiosulfate in (ab.), 147 EDTA in treatment of scleroderma, sclerodactylia and calicinosis, 798 Electrocardiogram alterations in, during respiratory acidosis and alkalosis (ab.), 144 changes after ingestion of glucose (ab.), 301 in study of ventricular activity, 832 Electromagnet for measurement of blood flow (ab.), 153 Electromyographic changes in myasthenia gravis, 679 Electron microscopy in renal disease (ab.), 285 Electrophoresis and viral hepatitis (ab.), 646 lipoprotein separation by (ab.), 286 Emboli, organized, of pulmonary arteries and arterioles with cor pulmonale (CPC), 126 Embolism, pulmonary, as complication of congestive heart failure, 869 Emphysema pulmonary, and salicylate therapy, 509 ventilatory drive in, 533 subcutaneous, of gastrointestinal origin, 872 Endocarditis bacterial (E.), 1 due to Listeria monocytogenes, 494 chronic, with failure unaccompanied by edema (CPC), changes in normal pregnancy, 721 glands and normal muscle work, 724 effect of myasthenia gravis, 729 Endotoxin, radioactive, physiologic effects of (ab.), 136 Endplate, motor, structure of, 661 Enemas, potassium washout by (ab.), 288 Enzyme proteolytic, inhibition (ab.), 297 and acute leukemia, 824 systems and reactions in glycogen storage disease, 610 Eosinophilia, as associated with pancreatitis, 648 Epinephrine activity and cerebral cortical stimulation (ab.), 139 Erythrocyte carbohydrate metabolism in hereditary hemolytic ane-

Female genital function in creatine metabolism (ab.).

Fibrinolytic purpura in leukemia, 824 Fibrosis, pulmonary, and rheumatoid disease, 569 Fistula, pulmonary arteriovenous, 549 Foreword to symposium on myasthenia gravis, 655 Fructose, clinical usufulness of (E.), 163

survival and radioactive chromium (ab.), 299

Expiratory capacity test and lung volumes (ab.), 148

mia (ab.), 291

Estrogen therapy and atherosclerosis, 4

Gamma Globulin and cortisone in viral hepatitis, 783 Ganglionic block in renal function (ab.), 151 Gastrointestinal carcinoid tumor, 366 secretions, potassium content of (ab.), 287 tract and antibiotics (ab.), 297 subcutaneous emphysema originating from, 872 Globulin formation, deficiency in, 222 Glucosamine, insulin action on (ab.), 302 Glucose and electrocardiogram changes (ab.), 301 utilization, impairment of (ab.), 140 Glycogen metabolism and diseases of glycogen storage. 610 Glycoproteins, serum, in viral hepatitis (ab.), 646 Gonadal hormones, influence of on protein-lipid relationships, 4 Gonadotropin assays in diagnosis of myxedema (ab.), 289

Granulomatosis, pathergic (E.), 829

Heart

disease, pulmonary compliance in (ab.), 149 failure, congestive, digitalis toxicity and mercurial-fast edema in, 869 congestive, renal function in (ab.), 151 metastatic tumors of, 357 movements, electrokymograms and kinetocardiograms of (ab.), 139 sounds and carotid sinus pressure, 177 and mitral stenosis, 862 and phonocardiographic evaluation, 849 Heat stroke, hematologic studies in (ab.), 141 Hematocrit, splanchnic, in the dog (ab.), 645 Hematuria, sickling as a cause of, 773 Hemodynamic and clinical factors in pulmonary stenosis and interatrial communication, 189 changes and hypertension, 203 Hemoglobin-C disease and hematuria, 773 Heparin and cerebral blood flow and metabolism (ab.). 153 Hepatic necrosis, massive (ab.), 644 tests, interrelationships among (ab.), 640 venous serum potassium elevation during hyperventilation (ab.), 143 Hepatitis and bile duct obstruction (ab.), 641 cholangiolitic (ab.), 642 viral, and adrenal hormone therapy, 783

and serum proteins (ab.), 646 electrophoretic studies in (ab.), 646 serum glycoproteins in (ab.), 646 Hepatobiliary disease, serum complement in (ab.), 646 Herpes simplex and meningo-encephalitis, 814 Hexamethonium and pentapyrrolidinium (ab.), 142 in hypertension (ab.), 138 Histoplasmosis, 410

Hodgkin's disease, usefulness of retroperitoneal pneumography in, 155 Hormone gonadal, influence of on lipids and lipoproteins, 4 therapy, and breast cancer, 337 in viral hepatitis, 783 Houssay phenomenon in man, 327 Hypercholesteremia, nephrotic, experimental (ab.), 285 Hypertension and hemodynamic changes with capillary bed, 203 and restriction of dietary fat and cholesterol, 48 cardiovascular, and reserpine (ab.), 149 malignant (ab.), 141 pentolinium in (ab.), 138 treatment of, with reserpine (ab.), 149 vasoactivity of azides in (ab.), 137 Hyperthyroidism, serum lipids in, 71 Hyperventilation and elevation of potassium (ab.), 143 Hypoglycemia, spontaneous, 460 Hypomagnesemia due to hypersecretion of mineralocorticoid, 976 Hypophysectomy and diabetic vascular disease (ab.), 295 Hypopotassemia due to hypersecretion of mineralocorticoid, 976 Hypotension, postural, and counterpressure garment (ab.), 152 Hypothalmic pressor response and reserpine (ab.), 142 Hypothermia, induced, physiologic variations in (ab.), Hypothyroidism serum lipids in, 71 lipid fractions in (ab.), 135 Impulse formation and conduction in pre-excitation syndrome, 759 Infarction myocardial, and radioactive iodine (ab.), 295 serum transaminase levels in (ab.), 298

action on glucosamine (ab.), 302 mechanisms of, 257 in treatment of diabetes mellitus, 925 requirements and hypophysectomies (ab.), 295 Intestinal parasitic disease, 620 Intrapulmonary gas distribution in pulmonary disorders (ab.), 148 Iodine, radioactive, and myocardial infarction (ab.), 295 Iron turnover, clinical evaluation of (ab.), 150

Jaundice and chlorpromazine (ab.), 644 intrahepatic, in infants (ab.), 644 surgical aspects of (ab.), 641

Kidney biopsy in acute anuria, 209 protein metabolism in (ab.), 286 Kinetics of inorganic iron (ab.), 299

Lactic acid in metabolism (ab.), 289 Laennec's cirrhosis, blood volume in (ab.), 139 and life span of leukocytes (ab.), 292 fibrinolytic purpura in, 824 granulocytic, and myerlin (ab.), 293 6-mercaptopurine, 6-thioguanine and azaserine in (ab.), 293 Leukocyte and platelet production and leukopheresis (ab.), 292 Leukopenia of virus infection (ab.), 137 Leukopheresis and leukocyte and platelet production (ab.), 292 Lipids and lipoproteins, effects of dietary fat and cholesterol upon, 48 influence of gonadal hormones on, 4 effects of sitosterol on, 61 pattern in hyperthyroidism, hypothyroidism and coronary athersclerosis, 71 Lipoprotein and cholesterol concentrations of Central and North Americans, 25 separation by electrophoresis (ab.), 286 serum, in atherosclerosis (ab.), 300 Listerian monocytogenes and bacterial endocarditis, 494 biopsy specimens and biliary duct obstruction (ab.), 641 disease in sickle cell anemia, 583 fatty metamorphosis of, and pregnancy, 743 treatment of (ab.), 647 function and prostatic cancer, 895 inflammation of, and adrenal hormone therapy, 783 postnecrotic scarring and acute necrosis of liver (CFC), L-triiodothyronine, effect of, on protein synthesis (ab.), 138

Lymphomatous neoplasms and retroperitoneal pneumography, 155

Melanin pigmentation, 902 Meningo-encephalitis and herpes simplex, 814 6-Mercaptopurine and leukemia (ab.), 293 Mercuhydrin, effect of, on cardiac output and urinary excretion (ab.), 151 Mercurial-fast edema and digitalis toxicity in congestive heart failure, 869 Mestinon bromide, report on, 737 Mestinon, pharmacology of, 673 Metabolic and psychologic studies associated with rowing (ab.), characteristics of tuberculosis (ab.), 148 Metabolism and sorbitol (ab.), 301 cerebral, and heparin (ab.), 153 erythrocyte carbohydrate, and hereditary hemolytic anemia (ab.), 291 glycogen, and diseases of glycogen storage, 610 intermediary, actions of insulin on, 257

Metabolism lactic acid in (ab.), 289 of bile pigments (ab.), 640 of carbohydrates, 96 of fat and adipose tissue, 111 protein, in kidney (ab.), 286 radioactive copper (ab.), 289 ventilation and circulation, interrelationships of (E.), Metal binding agents (ab.), 152 Metastatic prostatic cancer and hepatic damage, 895 tumors of heart, 357 Mineralocorticoid effect of adrenal cortical carcinoma, 966 hypersecretion of, and hypopotassemia, hypomagnesemia, alkalosis and tetany, 976 commissurotomy, evaluation of (ab.), 294 stenosis, blood flow and carbohydrate metabolism in (ab.), 150 value of phonocardiography in, 862 Mixing in biological systems (ab.), 148 Muscle work and endocrine glands, 724 Myasthenia gravis and cholinergic crises, 740 and the thymus, 697 and WIN 8077, 734 effect of endocrine glands on, 729 electrical and mechanical activity in, 693 electromyographic changes in, 679 neuromuscular transmission in, 691 neuromuscular transmission in, and drug action, 684 patients and curarized normal humans, 693 pregnancy in, 718 problems of, 658 symposium on, foreword, 655 thymectomy in treatment of, 703 Myerlin in granulocytic leukemia (ab.), 293 Myocardial carbohydrate metabolism in mitral stenosis (ab.), damage and cardiac output (ab.), 141 Myxedema effect of L-triiodothyronine on protein synthesis in (ab.), 138 gonadotropin assays in diagnosis of (ab.), 289 Nail beds in hepatic cirrhosis (ab.), 647 Neoplasms, lymphomatous, and retroperitoneal pneu-

Nail beds in hepatic cirrhosis (ab.), 647

Neoplasms, lymphomatous, and retroperitoneal promography, 155

Nephrotic hypercholesteremia (ab.), 285

Nervous system and peripheral circulation (ab.), 302

Neuritis, serum, phrenic paralysis due to, 808

Neuromuscular

blocking agents, 669

transmission, 663

in myasthenia gravis, 691

Neuromuscular transmission in myasthenia gravis, and drug action, 684 Nucleotide levels in cardiac muscle (ab.), 137

Obesity, 111 and the night-eating syndrome, 78 Osteomalacia, glycosuric, renal response in (ab.), 146

Pancreatitis with eosinophilia and pleural effusion, 648
Papilledema, hypertensive vascular disease with, 33
Paralysis, phrenic, due to serum neuritis, 808
Parasitic disease, intestinal, 620
Pathergic granulomatosis (E.), 829
Pentapyrrolidinium, renal hemodynamic response to (ab.), 142
Pentolinium in hypertension (ab.), 138
Peripheral
circulation and nervous system (ab.), 302
vascular response to cold (ab.), 300
Pharmacology of anticholinesterase drugs, 673
Pheochromocytoma, 946
and hypertension, 203
Phonocardiography
in mitral stenosis, 862

in mitral stenosis, 862
spectral, evaluation of, and splitting of heart sounds, 849
Phrenic paralysis due to serum neuritis, 808

Phrenic paralysis due to serum neuritis, 808 Pigmentation, melanin, 902 Pituitary insufficiency and diabetes, 327 Plasma

human, and bovine antihemophilic factor (ab.), 291 protein formation (ab.), 286 Platelets

and leukocytes, production of, and leukopheresis (ab.),
292
influence of blood transfusions upon (ab.), 298

effusion and eosinophilia with pancreatitis, 648 implants, malignant, and intracavitary TEM (ab.), 300

Pneumography, retroperitoneal, and lymphomatous neoplasms, 155 Poisoning, salicylate (ab.), 151

Poliomyelitis, diagnosis by tissue culture (ab.), 297 Polycythemia secondary to anoxemia, 958

Postnecrotic scarring and acute necrosis of liver (CPC), 479

Postural syncope and cerebral and cardiac hemodynamics (ab.), 140

Potassium
content of gastrointestinal secretions (ab.), 287
elevation during hyperventilation (ab.), 143
internal distribution, and respiratory acidosis (ab.),
288
washout by enemas (ab.), 288

Precipitin test for serum lipoproteins (ab.), 300 Precordium, systolic movements of, in bundle branch block (ab.), 142

Pregnancy Respiration, regulatory mechanisms of, 533 and fatty metamorphosis of liver, 743 Respiratory and treponema pallidum immobilization test (ab.), 296 acidosis and alkalosis, electrocardiographic alterations in myasthenia gravis, 718 in (ab.), 144 and diamox therapy, 516 normal, endocrine changes in, 721 Prostate, cancer of, and hepatic damage, 895 and circulatory actions of salicylate, 498 Prostigmin, pharmacology of, 673 Rheumatic fever and adrenocorticotropin (ab.), 291 Protein Rheumatoid disease, pulmonary lesions in, 569 metabolism in kidney (ab.), 286 Rice diet and cardiovascular disease, 33 serum, and viral hepatitis (ab.), 646 Roentgenology, new contrast medium in (ab.), 647 studies in, 222 Rothane and renal clearance of thiosulfate (ab.), 145 Proteolysis and acute leukemia, 824 Proteus and antibiotic agents (ab.), 297 **Pulmonary** Salicylate arteriovenous fistula, 549 poisoning (ab.), 151 artery, pressures in, and angiotonin (ab.), 145 respiratory and circulatory actions of, 498 rupture of aortic aneurysm into, 159 therapy and pulmonary emphysema, 509 compliance in heart disease (ab.), 149 Sarcoidosis, serologic hyper-reactivity in, 401 disorders, intrapulmonary gas distribution in (ab.), 148 Sclerodactylia, treatment of, with EDTA, 798 emboli, organized, with cor pulmonale (CPC), 126 Scleroderma embolism as complication of congestive heart failure, and ovarian cyst (ab.), 137 869 treatment of, with EDTA, 798 emphysema, and salicylate therapy, 509 Seminar on carbohydrate metabolism ventilatory drive in, 533 current views on the mechanisms of insulin action, function test (ab.), 296 257 insufficiency, cerebral circulation in (ab.), 152 evolution of modified insulins in the treatment of dialesions in rheumatoid disease, 569 betes mellitus, with special emphasis on insulinstenosis and interatrial communication with cyanosis, zinc suspensions, 925 experimental diabetes and its relation to diabetes mel-Purpura, fibrinolytic, 'n leukemia, 824 litus, 790 Pyridostigmine, report on, 737 metabolism of carbohydrates, 96 problem of degenerative vascular disease in diabetes, Quinidine, metabolic effect of (ab.), 140 recent developments in the field of glycogen metabolism and the diseases of glycogen storage, 610 spontaneous hypoglycemia, 460 Radioactive endotoxin, physiologic effects of (ab.), 136 Serotonin and renal cortical necrosis (ab.), 285 Radiocesium, excretion of, and decay rate (ab.), 150 Serum Radiosulfate in edema (ab.), 147 acid phosphatase levels and prostatic cancer, 895 Rauwolfia in hypertension (ab.), 138 cholesterol changes with thiouracil and tapazole (ab.), Recumbency and neck compression, effect of, on renal sodium regulation (ab.), 144 complement in hepatobiliary disease (ab.), 646 Renal concentration of tetracycline in (ab.), 145 clearance of thiosulfate (ab.), 145 lipid fractions in hypothyroidism (ab.), 135 cortical necrosis, and serotonin (ab.), 285 neuritis, phrenic paralysis due to, 808 and urinary suppression, 209 Shock, irreversible, and blood coagulation (ab.), 138 disease, and malignant hypertension (ab.), 141 Sickling as a cause of hematuria, 773 pathologic course of (ab.), 285 Simmonds' disease (ab.), 289 effects of carbonic anhydrase inhibitor on acid-base Sitosterol, effects on lipids, 61 balance, 516 Sorbitol, metabolism and excretion of (ab.), 301 function in congestive heart failure (ab.), 151 Southern Society for Clinical Research, annual meeting, hemodynamics and adrenal cortex (ab.), 146 January 29, 1955, 135 response to pentapyrrolidinium (ab.), 142 Splanchnic response to ammonium chloride acidosis (ab.), 146 sodium regulation (ab.), 144 hematocrit in the dog (ab.), 645 tubular acidosis (ab.), 288 ketone production (ab.), 147 reabsorption and antidiuretic hormone (ab.), 143 Stenosis, Reserpine mitral, value of phonocardiography in, 862 and the hypothalmic pressor response (ab.), 142 pulmonary, 189 Steroid hormone therapy and breast cancer, 337 in hypertension (ab.), 149

Symposium on myasthenia gravis, 655-742

Alterations in neuromuscular transmission in myasthenia gravis as determined by studies of drug action, 684

Comparison of simultaneously recorded electrical and mechanical activity in myasthenia gravis patients and in partially curarized normal humans, 693

Effect of certain endocrine glands on myasthenia gravis, 729

Effect of endocrine glands on normal muscle work, 724 Electromyographic changes in myasthenia gravis, 679 Endocrine changes in normal pregnancy, 721

Foreword, 655

Management of myasthenic and cholinergic crises, 740

Neuromuscular blocking agents, 669

Neuromuscular transmission, 663

Neuromuscular transmission in myasthenia gravis, 691 Pharmacology of anticholinesterase drugs-mestinon, prostigmin, tensilon and TEPP, 673

Pregnancy in myasthenia gravis and neonatal myasthenia gravis, 718

Present status of thymectomy in treatment of myasthenia gravis, 703

Problems of myasthenia gravis, 658

Progress report on mestinon bromide (pyridostigmine), 737

Structure of motor endplate, 661

The thymus and myasthenia, 697

WIN 8077 in treatment of sixty myasthenia gravis patients, 734

Systolic click of pulmonary artery (ab.), 294

Tapazole and thyroid function (ab.), 154 TEM and malignant pleural implants (ab.), 300 Tensilon, pharmacology of, 673 TEPP, pharmacology of, 673 Tetany due to hypersecretion of mineralocorticoid, 976 Tetracycline, concentration of, in serum (ab.), 145 6-Thioguanine and leukemia (ab.), 293 Thiosulfate, renal clearance of (ab.), 145 Thiouracil and thyroid function (ab.), 154 Thymectomy in treatment of myasthenia gravis, 703 Thymus and myasthenia gravis, 697 Thyroid function, thiouracil and tapazole in (ab.), 154 tissue slices and assay of thyrotropin (ab.), 290

Thyrotropin, assay of, with thyroid tissue slices (ab.), 290

Transaminase levels and myocardial infarction (ab.), 298 Treponema pallidum immobilization test and pregnancy (ab.), 296

Tuberculosis, metabolic characteristics of (ab.), 148 Tumor

gastrointestinal carcinoid, 366 metastatic, of the heart, 357

Ulcerative colitis

and antibody-coated red blood cells, 887 psychologic processes involved in, 231

Uremia, anemia of (ab.), 153

Urinary

calculus formation and metal chelating agents, 87 excretion and mercuhydrin (ab.), 151

Vascular

disease, degenerative, in diabetes, 933

hypertensive, with papilledema, 33

distribution of carbon monoxide and radioactive chromium (ab.), 287

peripheral, response to cold (ab.), 300

Ventilation, circulation and metabolism, interrelationships of (E.), 495

Ventilatory drive in pulmonary emphysema, 533

Ventricle, human, electrocardiographic records of activation of, 832

Ventricular

arrhythmias as a form of digitalis toxicity, 169 electrokymograms and kinetocardiographic traces (ab.), 139

pre-excitation and Wolff-Parkinson-White syndrome, 759

Virus infection, leukopenia of (ab.), 137

Vitamin B₁₂, absorption, and antibiotics (ab.), 297

Western Society for Clinical Research, eighth annual meeting, January 28 and 29, 1955, 285

Whipple's disease, 370

Wilson's disease, Cu⁶⁴ in (ab.), 144

WIN 8077 and myasthenia gravis, 734 Wolff-Parkinson-White syndrome and ventricular preexcitation, 759

Zinc-insulin suspensions and diabetes mellitus, 925

The American Journal of Medicine

Editor Alexander B. Gutman, M. D.

Professor of Medicine

COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS, NEW YORK DIRECTOR OF MEDICINE, THE MOUNT SINAI HOSPITAL, NEW YORK

ADVISORY BOARD

DAVID P. BARR, M.D., Professor of Medicine, Cornell University Medical College, New York; ARTHUR L. BLOOMFIELD, M.D., Professor of Medicine, School of Medicine, Stanford University, San Francisco; EUGENE A. STEAD, JR., M.D., Professor of Medicine, School of Medicine, Duke University, Durham; Joseph T. Wearn, M.D., Professor of Medicine, School of Medicine, Western Reserve University, Cleveland.

ASSOCIATE EDITORS

PAUL B. BEESON, M.D., New Haven; HERRMAN L. BLUMGART, M.D., Boston; EUGENE B. FERRIS, JR., M.D., Atlanta; HARRY GOLD, M.D., New York; A. McGehee Harvey, M.D., Baltimore; George H. HOUCK, M.D., Palo Alto; Chester S. Keefer, M.D., Boston; William S. McCann, M.D., Rochester, N. Y.; George R. Meneely, M.D., Nashville; Carl V. Moore, M.D., St. Louis; Walter L. Palmer, M.D., Chicago; Ephraim Shorr, M.D., New York; De Witt Stetten, Jr., M.D., Bethesda; George W. Thorn, M.D., Boston; William S. Tillett, M.D., New York; Roy H. Turner, M.D., New Orleans; M. M. Wintrobe, M.D., Salt Lake City; W. Barry Wood, M.D., Baltimore; John B. Youmans, M.D., Nashville.

Volume XIX
JULY TO DECEMBER

1955

Copyright, 1955 by

THE AMERICAN JOURNAL OF MEDICINE, INC.

NEW YORK

MCMLV

Printed in the United States of America

All Rights Reserved

CONTENTS OF VOLUME XIX ORIGINAL ARTICLES

| Subacute Bacterial Endocarditis: Optimal Dura- | | | | | |
|--|-----------------------------------|---|---|-----|-----|
| tion of Treatment | Paul B. Beeson | | | | 1 |
| Influence of Gonadal Hormones on Protein-Lipid | (Ella M. Russ | | | .) | |
| Relationships in Human Plasma. | Howard A. Eder | | | - | 4 |
| • | David P. Barr | | | .] | |
| Serum Lipoprotein and Cholesterol Concentra- | George V. Mann | | | .) | |
| tions of Central and North Americans with | {J. Antonio Muñoz | | | | 25 |
| Different Dietary Habits | Nevin S. Scrimshaw . | | | .] | |
| Analysis of 177 Cases of Hypertensive Vascular | (Parkara Nambara | | |) | |
| Disease with Papilledema. One Hundred | Barbara Newborg | • | | | 33 |
| Twenty-six Patients Treated with Rice Diet | Walter Kempner | • | • | | |
| Effects of Restriction of Dietary Fat and Choles- | (Frederick T. Hatch | | | .) | |
| terol upon Serum Lipids and Lipoproteins in | Liese L. Abell | | | | 48 |
| Patients with Hypertension | Forrest E. Kendall | | | | |
| | [Maurice M. Best | | | . 1 | |
| Effects of Situational are Sources I in ide | Charles H. Duncan. | | | . (| 4.1 |
| Effects of Sitosterol on Serum Lipids | Edward J. Van Loon . | | | . (| 61 |
| | Joan D. Wathen | | | .) | |
| Comparison of the second secon | (Richard J. Janes | | | .) | |
| Serum Lipid Pattern in Hyperthyroidism, Hypo- | Louis Cohen | | | . } | 71 |
| thyroidism and Coronary Atherosclerosis | Howard Corbus | | | .] | |
| Night action Conductor A Detterm of Food Intelle | (Albert J. Stunkard | | | .) | |
| Night-eating Syndrome. A Pattern of Food Intake | William J. Grace | | | . } | 78 |
| among Certain Obese Patients | Harold G. Wolff | | | .] | |
| Matal Chalata Camanada of Haira Thair Bala | William H. Boyce | | | ·ĺ | |
| Metal Chelate Compounds of Urine. Their Rela- | Fred K. Garvey | | | . } | 87 |
| tion to the Initiation and Growth of Calculi | Charles M. Norfleet, Jr. | | | .] | |
| Matabalian of Cambahadaataa A Barian | De Witt Stetten, Jr | | | .1 | 96 |
| Metabolism of Carbohydrates. A Review | Yale J. Topper | | | .] | 90 |
| Obesity | | | | . ' | 111 |
| Right-sided Heart Failure Occurring during Suc- | | | | | |
| cessive Pregnancies, Polycythemia, and Sudden | | | | | |
| Peripheral Vascular Collapse | | | | | 126 |
| Southern Society for Clinical Research—Abstracts | | | | | |
| of Papers Presented at the Annual Meeting, | | | | | |
| New Orleans, Louisiana, January 29, 1955. | | | | | 135 |
| Retroperitoneal Pneumography in the Diagnosis | Ralph M. Myerson | | | .) | 455 |
| of Retroperitoneal Lymphomatous Neoplasms. | George T. Wohl | | | . 1 | 155 |
| Rupture of Aortic Aneurysm into the Pulmonary | | | | ĺ | |
| Artery. Report of a Case Proved by Cardiac | David Buttross, Jr John Salatich | | | . } | 159 |
| Catheterization | John Salatich | | | .] | |
| Clinian I II and all and a Company | Albert E. Renold | | | . 1 | 1/2 |
| Clinical Usefulness of Fructose | George W. Thorn | | | .] | 163 |
| Precipitation of Ventricular Arrhythmias Due to | , | | | , | |
| Digitalis by Carbohydrate Administration | Ernest Page | | | | 169 |
| | John L. Read | | | .) | |
| tial Diagnosis of Triple Rhythms | William B. Porter | | | | 177 |
| | | | | | |

| Pulmonary Stenosis and Interatrial Communication with Cyanosis. Hemodynamic and Clinical Study of Ten Patients. Hemodynamic Changes in the Bulbar Conjunctival Capillary Bed of Subjects with Hypertension Associated with "Cushing's Syndrome" or Pheochromocytoma | | . 203 |
|--|------------------------------|-------|
| Kidney Biopsy in Acute Anuria. With a Case of | (Harald Gormsen | .) |
| Acute, Bilateral Cortical Necrosis | Poul Iversen | . 209 |
| Acute, bilateral Cortical Necrosis | Flemming Raaschou | .] |
| Studies in Samum Proteins Agammaglabulinamia | (Irving I. Young | .) |
| Studies in Serum Proteins. Agammaglobulinemia in the Adult | William Q. Wolfson | 222 |
| In the Adult | Clarence Cohn | |
| Studies of Ulcerative Colitis. III. The Nature of the | | • |
| Psychologic Process | George L. Engel | 231 |
| Current Views on the Mechanisms of Insulin Action Exposure to Insecticides, Bone Marrow Failure, | William C. Stadie | 257 |
| Gastrointestinal Bleeding, and Uncontrollable | | |
| Infections | | 274 |
| Western Society for Clinical Research—Abstracts | | |
| of Papers Presented at the Eighth Annual Meet- | | |
| ing, Carmel, Calif., January 28 and 29, 1955 | | 285 |
| ,,,, | (Marvin Rosecan |) |
| Agammaglobulinemia in the Adult | Frank E. Trobaugh, Jr | 303 |
| 3 | William H. Danforth | |
| Bronchiolitis Obliterans | Capt. Arthur J. McAdams, Jr. | 314 |
| "For Breath Too Is Nutriment" | George R. Meneely | 323 |
| | John Collins Harvey |) |
| Houssay Phenomenon in Man | Johan de Klerk | 327 |
| | B. J. Kennedy | Í |
| Biochemical Alterations during Steroid Hormone | Ira T. Nathanson | 1 227 |
| Therapy of Advanced Breast Cancer | Dorothy M. Tibbetts | 337 |
| | Joseph C. Aub |) |
| Pathogenesis of Anemia in Patients with Car- | George A. Hyman | 250 |
| cinoma | Jane E. Harvey | 350 |
| | Harvey S. Gassman | ĺ |
| Metastatic Tumors of the Heart | Russell Meadows, Jr | 357 |
| | Lyle A. Baker | J |
| Association of Gastrointestinal Carcinoid Tumor | | |
| with Cardiovascular Abnormalities | David M. Spain | 366 |
| Dermatomyositis: Diagnostic Features and Thera- | Capt. C. A. Domzalski | 370 |
| peutic Pitfalls | Lieut. V. C. Morgan | 3/0 |
| Whipple's Disease | Robert H. Puite | 383 |
| vvinipple's Disease | Henry Tesluk | 303 |
| | Major James H. Sands |) |
| Evidence for Serologic Hyper-reactivity in Sar- | Major Paul P. Palmer | 401 |
| coidosis | Capt. Robert L. Mayock | (401 |
| | Capt. William P. Creger |) |
| | Frederic N. Silverman |) |
| Historiaemosis | Jan Schwarz | 410 |
| Histoplasmosis | M. Eugene Lahey | (410 |
| | Robert P. Carson | |

Contents

| Spontaneous Hypoglycemia | Holbrooke S. Seltzer | , | | • | 460 |
|--|-----------------------|---|---|-----|-----|
| Jaundice and Ascites with Recovery for Two | • | | | • | , |
| Years; Recurrence of Jaundice, with Abdominal Pain, Hematemesis and Azotemia | | | | | 479 |
| | Don't D. Harrist | | | | 7// |
| Subacute Bacterial Endocarditis Due to Listeria | 4 | | | | 488 |
| Monocytogenes | Hyman M. Chernoff | | | .] | |
| Interrelationships of Ventilation, Circulation and | | | | | |
| Metabolism | William S. McCann | | | | 495 |
| Danimatana and Cinarlatana Assistant of Salizadata | S. M. Tenney . | , | | .] | 498 |
| Respiratory and Circulatory Actions of Salicylate | R. M. Miller | | | . / | 498 |
| | René Wégria | | | í | |
| | Nicholas Capeci. | | | | |
| Effect of Salicylate on the Acid-Base Equilibrium | | , | | 1 | 1 |
| of Patients with Chronic CO2 Retention Due to | George Kiss. | | | . (| 509 |
| Pulmonary Emphysema | Vincent V. Glaviano | | | . (| |
| , 1 | John H. Keating | | | . 1 | |
| | \James G. Hilton | | | . / | |
| Respiratory and Renal Effects of a Carbonic An- | | | | | |
| hydrase Inhibitor (Diamox) on Acid-Base Bal- | | | | | |
| ance in Normal Man and in Patients with Res- | | | | | |
| piratory Acidosis | Morton Galdston | | | | 516 |
| • , | (A. P. Fishman . | | |) | |
| Ventilatory Drive in Chronic Pulmonary Emphy- | | | | | 533 |
| sema | | , | | . (| 333 |
| | André Cournand | | | .) | |
| Pulmonary Arteriovenous Fistula. Angiocardio- | [Israel Steinberg | | | . | 549 |
| graphic Observations in Nine Cases | John McClenahan | | | .] | 3.7 |
| Pulmonary Lesions in "Rheumatoid Disease" with | | | | | |
| Remarks on Diffuse Interstitial Pulmonary | | | | | |
| Fibrosis | Eli H. Rubin | | | | 569 |
| | 1 A Rogach | | | 1 | |
| Liver Disease in Sickle Cell Anemia. A Correla- | W. G. B. Casselman | | | 1 | |
| tion of Clinical, Biochemical, Histologic and | M. P. Margolies | | | . > | 583 |
| Histochemical Observations | | | | .) | |
| | H. L. Bockus | | * | . / | |
| Recent Developments in the Field of Glycogen | _ | | | | |
| Metabolism and Diseases of Glycogen Storage. | Lillian Recant | | | | 610 |
| Choice of Therapy in Intestinal Parasitic Disease | | | | | 620 |
| Rheumatic Heart Disease, Auricular Fibrillation, | | | | | |
| Fever, Hematuria without Anemia, Spleno- | | | | | |
| megaly and Sudden Death | | | | | 629 |
| Association for the Study of Liver Diseases—Ab- | | | | | |
| • | | | | | |
| stracts of Papers Presented at the Fifth Annual | | | | | 640 |
| Meeting, Chicago, Illinois, October 28, 1954 | | | | | 040 |
| Chronic Relapsing Pancreatitis with Associated | | | | | |
| Marked Eosinophilia and Pleural Effusion. | Kerrison Juniper, Jr. | | | | 648 |
| Anauryem of the Left Coronary Artery | Milton Tellem | | | .] | 652 |
| Aneurysm of the Left Coronary Artery | A. I. Rubenstone . | | | .] | 032 |
| Foreword | George D. Gammon. | | | | 655 |
| Problems of Myasthenia Gravis | Henry R. Viets | | | | 658 |
| Structure of the Motor Endplate | George B. Koelle | | | | 661 |
| Neuromuscular Transmission. Fundamental As- | Storge D. House | | | | |
| | William L. Nastuk. | | | | 663 |
| pects of the Normal Process | william L. Wastuk. | | | | 003 |

| Neuromuscular Blocking Agents | E. F. Van Maanen | 669 |
|--|--------------------------|-------|
| | | |
| Pharmacology of the Anticholinesterase Drugs- | C. E. Conroy | ((72 |
| Mestinon, Prostigmin, Tensilon and TEPP. | T. M. Ferruggia | 673 |
| recomen, recombining recommendation | B. H. Kappell | 1 |
| | C. R. Knoeppel. | ! |
| | Richard J. Johns | |
| Electromyographic Changes in Myasthenia Gravis | {David Grob | 679 |
| | A. McGehee Harvey |) |
| Alterations in Neuromuscular Transmission in | (David Grob |) |
| Myasthenia Gravis As Determined by Studies | | 684 |
| of Drug Action | A. McGehee Harvey | |
| Neuromuscular Transmission in Myasthenia | H. C. Churchill-Davidson | Í |
| Gravis | A. T. Richardson | 691 |
| Comparison of Simultaneously Recorded Elec- | (11. 1 . Itteliarason | , |
| trical and Mechanical Activity in Myasthenia | | |
| Gravis Patients and in Partially Curarized Nor- | | |
| | Challe V Detalle | 693 |
| | Stella Y. Botelho | |
| The Thymus and Myasthenia | Andrew Wilson. | 697 |
| Present Status of Thymectomy in Treatment of | | 703 |
| Myasthenia Gravis | O. Theron Clagett | |
| Pregnancy in Myasthenia Gravis and Neonatal | | |
| Myasthenia Gravis | Nathan S. Schlezinger | 718 |
| Endocrine Changes in Normal Pregnancy | Eleanor H. Venning | 721 |
| Effect of Endocrine Glands on Normal Muscle | | |
| Work | Dwight J. Ingle | 724 |
| Effect of Certain Endocrine Glands on Myasthenia | | |
| Gravis | Charles A. Kane | 729 |
| WIN 8077 in the Treatment of Sixty Myasthenia | | |
| Gravis Patients. A Twelve-month Report. | Robert S. Schwab | 734 |
| Progress Report on Mestinon Bromide | Kermit E. Osserman | 737 |
| Management of Myasthenic and Cholinergic | | |
| Crises | J. E. Tether | 740 |
| Acute Fatty Metamorphosis of the Liver Associ- | | |
| | | 743 |
| Disturbances of Impulse Formation and Con- | 1 | |
| duction in the Pre-excitation (WPW) Syn- | Alfred Pick | 759 |
| drome—Their Bearing on Its Mechanism. | Louis N. Katz. | 13) |
| drome—Then bearing on its weenamsin. | (| |
| Corre Hamatonia in Sighla Call Trait and Sighla | (A. Zerne Chapman) | |
| Gross Hematuria in Sickle Cell Trait and Sickle | Paul S. Reeder | 773 |
| Cell Hemoglobin-C Disease | Irving A. Friedman | |
| | Lyle A. Baker | |
| Adrenal Hormone Therapy in Viral Hepatitis. IV. | (Alfred S. Evans. | |
| The Effect of Gamma Globulin and Oral Corti- | Col. Robert S. Nelson | 783 |
| sone in the Acute Disease | Lt. Col. Helmuth Sprinz | , |
| solie in the reace bisease | Capt. Frank P. Cantrell | |
| Experimental Diabetes and Its Relation to Dia- | | |
| betes Mellitus | F. D. W. Lukens | 790 |
| | Rubin Klein | |
| | Samuel B. Harris | 798 |
| | Hugh P. Smith . | |
| Phrenic Paralysis Due to Serum Neuritis | Hugh P. Smith, Jr. | 808 |
| | 1 | |

Contents

| Cutaneous Herpes Simplex | Brewster P. Hunt . Edward O'B. Comer | | | | 814 |
|---|---|---|------|-----|------------|
| Fibrinolytic Purpura in Acute Leukemia | Anthony V. Pisciotta Earl J. Schultz. | : | | | 824 |
| Pathergic Granulomatosis | Robert Fienberg. | | | | 829 |
| Studies on the Mechanism of Ventricular Activity. xvi. Activation of the Human Ventricle | Rashid A. Massumi Alfred Goldman Louis Rakita Kiyoshi Kuramoto . Myron Prinzmetal . | | | | 832 |
| The Splitting of Heart Sounds. A Spectral Phonocardiographic Evaluation of Clinical Significance | Victor A. McKusick W. Paul Reagan George W. Santos George N. Webb | | | | 849 |
| Diagnostic Value of Phonocardiography in Mitral Stenosis. Mode of Production of First Heart Sound | J. J. Kelly, Jr William R. Tench . | | | | 862 869 |
| Subcutaneous Emphysema of Gastrointestinal Origin | Henry K. Oetting . N. F. Kramer W. E. Branch | | | | 872 |
| Association of Antibody-coated Red Blood Cells with Ulcerative Colitis. Report of Four Cases . | Mortimer Lorber Lawrence I. Schwartz Louis R. Wasserman | | | · } | 887 |
| Prostatic Cancer. XII. Extremely Elevated Serum Acid Phosphatase Associated with Altered Liver Function | Perry B. Hudson Kenneth K. Tsuboi Arnold Mittelman | | | · } | 895 |
| Melanin Pigmentation | Aaron B. Lerner . | | | | 902 |
| Evolution of Modified Insulins in the Treatment of Diabetes Mellitus, with Special Emphasis on Insulin-Zinc Suspensions | Randall G. Sprague. Ralph A. Kilby. | | | .} | 925 |
| The Problem of Degenerative Vascular Disease in Diabetes | Henry T. Ricketts . | | | | 933 |
| Hypertension, Abdominal Pain and Nausea, Syncope and Shock | | | | | 946 |
| Anoxemia Secondary to Polycythemia and Polycythemia Secondary to Anoxemia | W. A. Briscoe J. W. Morton J. H. Comroe, Jr. | | | : } | 958 |
| Adrenal Cortical Carcinoma Producing Solely Mineralocorticoid Effect | Laurance V. Foye, Jr. Thomas V. Feichtmeir | | | :} | 966 |
| Spontaneous Hypopotassemia, Hypomagnesemia, Alkalosis and Tetany Due to Hypersecretion of Corticosterone-like Mineralocorticoid | Ivan J. Mader Lloyd T. Iseri | | | :} | 976 |